



Consultix 5G DUO . mmWave CW Transmitter Portable Signal Generator up to 40 GHz



5G-Duo test transmitter is a portable 26 dBm signal generator that brings simplicity and affordability to mmWave test scenarios required for 5G propagation studies and model calibration.

The RF performance of the handheld device makes it ideal for field applications as well as several laboratory use cases. Thanks to its calibrated output and wide range of operation covering frequencies from 24 to 30 GHz and from 36 to 40 GHz.

With output power levels up to 26 dBm, the transmitter significantly exceeds the maximum levels attained by traditional bench-top signal generators.

The instrument is engineered for maximum ease-of-use. Among the embodied features are the ergonomic form factor, direct user control through 2 buttons, simple LCD screen and the low power consumption that allows extended operation using an external battery pack for maximum flexibility.

Performance

- . 1 ppm frequency accuracy (0.3 ppm optional)
- . 40 GHz frequency range
- . 26 dBm max. output power
- . Low power consumption

Convenience

- . Intuitive user interface
- . Ergonomic form factor
- . 4 Kg weight (8.8 lbs)
- . High-grade test accessories





Specifications	
RF Characteristics	
Frequency Range	24 to 30 GHz & 36 to 40 GHz
Frequency Step	1 MHz
Modulation	CW (Continuous Wave Carrier)
Frequency Settings	Up and Down Buttons
Frequency Accuracy*	± 1 ppm (optional 0.3 ppm)
Reference Frequency Aging	± 1 ppm/year
Nominal Output Power	5G Duo : 26 dBm 5G Duo-i : 23 dBm
Level Accuracy*	± 1 dB
Level Settings	Fixed
Level Stability	± 1 dB
RF Output Interface	Female 2.92mm (K) Connector
Power Supply	
External Battery Pack (option)	>4.5 Hours @ continuous RF transmission
AC/DC Adapter	Input: 100-240 VAC, 50-60 Hz / Output: 28 VDC, 3.5 A
DC Input	Power Jack 2.1 mm ID 5.5 mm OD
Physical	
External Dimensions	(H) 140 mm, (W) 340 mm, (D) 240 mm
Weight	4 Kg (8.8 lbs). Additional 2.5 Kg (5.52 lbs) for external battery pack
Operating Temp	0 to 40 °C (32 to 104 °F)
Certifications	FCC and EN55022/CISPR 22 EMI
Standard Package	Transmitter, Quick Guide and AC/DC adapter

* Parameters specified after 15-minute warm-up time @ temperature 25 °C (77 °F).

Ordering Information	
Portable mmWave Signal Generator; 24 to 30 GHz & 36 to 40 GHz, max. 26 dBm (refer to power table)	Consultix 5G Duo
Portable mmWave Signal Generator; 24 to 30 GHz & 36 to 40 GHz, max. 23 dBm (refer to power table)	Consultix 5G Duo-i
High Frequency Accuracy (0.5 ppm; typ. 0.3 ppm) option for 5G Duo transmitters	5G Duo-HFA
Precision test cable; 3ft (90 cm), 40 GHz, 2.9mm (male-male), 2.96 dB Loss @ 40 GHz	C5G-Acc-C29
Omnidirectional Antenna 26 to 40 GHz, 7.5 dBi Gain, 2.92 mm K(F)	C5G-Acc-OA75
Omnidirectional Antenna 26.5 to 40 GHz, 3 dBi Gain, 2.92 mm K(F)	C5G-Acc-OA3
Waveguide Horn Antenna 26.5 to 40 GHz, 15 dBi Gain, 2.92 mm K(F)	C5G-Acc-HA15
External Battery-Pack for 5G Duo Transmitters; >4.5 Hours @ continuous RF transmission	5G Duo-BatPack

* Exterior design is subject to change without prior notice.

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